

Core public health competencies that all MPH or equivalent professional master's degree students are expected to achieve through their courses of study.

MPH Core Competencies, adopted from ASPH		
By graduation, students should be able to:		
<i>Competency Number</i>	<i>Area</i>	<i>Description</i>
MPH 001	Communication and Informatics	Collect, manage and organize data to produce information and meaning that is exchanged by use of signs and symbols.
MPH 002		Gather, process, and present information to different audiences in-person, through information technologies, or through media channels.
MPH 003		Strategically design the information and knowledge exchange process to achieve specific objectives.
MPH 004	Diversity and Culture	Interact with both diverse individuals and communities to produce or impact an intended public health outcome.
MPH 005		Create and communicate a shared vision for a changing future.
MPH 006	Leadership	Champion solutions to organizational and community challenges.
MPH 007		Energize commitment to goals.
MPH 008		Demonstrate ethical choices, values and professional practices implicit in public health decisions.
MPH 009	Professionalism	Consider the effect of choices on community stewardship, equity, social justice and accountability.
MPH 010		Commit to personal and institutional development.
MPH 011		Plan for the design, development, implementation, and evaluation of strategies to improve individual and community health.
MPH 012	Program Planning	Understand the biological and molecular context of public health (public health biology).
MPH 013	Public Health Biology	Recognize system level properties that result from dynamic interactions among human and social systems and how they affect the relationships among individuals, groups, organizations, communities, and environments.
	Systems Thinking	

Competencies by Specialty Area		
Specialty Area	ID No.	Competencies
<i>Environmental and Occupational Health</i>	EOH 001	Characterize the biological, chemical and physical hazards affecting human and ecosystem health.
	EOH 002	Understand the effects of environmental contaminants and infectious diseases on the human body and apply knowledge of these factors in developing prevention and management strategies and making policy recommendations.
	EOH 003	Describe the impact of social and behavioral influences on health and the interaction of these influences

		with environmental hazards.
	EOH 004	Organize data and information, prepare technical reports, and give oral presentations on recognition, evaluation, management and control of environmental health hazards.
	EOH 005	Identify current regulatory problems and legislative authorities directed at managing contamination in water, air, soil and food.
	EOH 006	Effectively communicate environmental health risks and prevention strategies to potentially affected communities.
	EOH 007	Critically read scientific and lay literature in the field of environmental health sciences.
<i>Epidemiology and Biostatistics</i>	EAB 001	Describe the roles that epidemiology and biostatistics serve in the discipline of public health, and be able to describe a public health problem in terms of magnitude, people, time, and place.
	EAB 002	Understand and apply proper terminology and definitions used in epidemiology and biostatistics.
	EAB 003	Identify key sources of data for epidemiologic and biostatistical studies.
	EAB 004	Understand and apply appropriate measurement scales, concepts of probability, random variation, and commonly used statistical probability distributions.
	EAB 005	Apply descriptive techniques and commonly used inferential statistical methods to summarize public health data.
	EAB 006	Describe preferred methodological alternatives to commonly used statistical methods when assumptions are not met.
	EAB 007	Explain the importance of epidemiology and biostatistics for informing scientific, ethical, economic and political discussion of health issues.
	EAB 008	Comprehend ethical and legal principles pertaining to the collection, maintenance, use and dissemination of data and other epidemiological information.
	EAB 009	Interpret, articulate, and critique results of statistical and epidemiological analyses found in public health studies.
	EAB 010	Develop written and oral presentations based on epidemiological studies and statistical analyses for both public health professionals and educated lay audiences, and prepare manuscripts for the peer-reviewed literature.
<i>Social & Behavioral</i>	SBH 001	Identify basic theories, concepts and models from a range of social and behavioral disciplines that are used in public health research and practice.
	SBH 002	Identify the causes of social and behavioral factors that affect health of individuals and populations.
	SBH 003	Identify individual, organizational and community concerns, assets, resources and deficits for social

		and behavioral science interventions.
	SBH 004	Identify critical stakeholders for the planning, implementation and evaluation of public health programs, policies and interventions.
	SBH 005	Describe steps and procedures for the planning, implementation and evaluation of public health programs, policies and interventions.
	SBH 006	Describe the role of social and community factors in both the onset and solution of public health problems.
	SBH 007	Describe the merits of social and behavioral science interventions and policies.
	SBH 008	Apply evidence-based approaches in the development and evaluation of social and behavioral science interventions.
	SBH 009	Apply ethical principles to public health program planning, implementation and evaluation.
	SBH 010	Specify multiple targets and levels of intervention for social and behavioral science programs and/or policies.
<i>Healthcare Administration & Policy</i>	HCA 001	Identify the main components and issues of the organization, financing and delivery of health services and public health systems in the US.
	HCA 002	Describe the legal and ethical bases for public health and health services.
	HCA 003	Explain methods of ensuring community health safety and preparedness.
	HCA 004	Discuss the policy process for improving the health status of populations.
	HCA 005	Apply the principles of program planning, development, budgeting, management and evaluation in organizational and community initiatives.
	HCA 006	Apply principles of strategic planning and marketing to public health.
	HCA 007	Apply quality and performance improvement concepts to address organizational performance issues.
	HCA 008	Apply "systems thinking" for resolving organizational problems.
	HCA 009	Communicate health policy and management issues using appropriate channels and technologies.
	HCA 010	Demonstrate leadership skills for building partnerships.